

AMENDMENTS TO THE DRAWINGS

Replacement Sheets are being submitted herewith for Figs. 20-22, in which the “Prior Art” legend has been added thereto.

REMARKS

Claims 1-24 are all the claims pending in this application.

Applicants thank the Examiner for indicating that this application is in condition for allowance except for formal matters. It is respectfully submitted that this response addresses the formal matters identified by the Examiner, and therefore, that the application is in condition for allowance.

First, with respect to the drawings, Applicants note that Figs. 20-22 have been modified as suggested by the Examiner so as to add the “Prior Art” legend thereto. Second, with respect to the objection to the claims, in which the Examiner has indicated that it is not clear how the wireless communication devices comprising different receiving bands but the same sampling frequency so as to undersample the downconverted signal would avoid aliasing due to not sampling at the Nyquist Criteria, Applicants provide the following comments.

The technology of preventing interference caused by mutual overlapping of the signal spectra generated by aliasing is known technology and is disclosed, for example, in Non-Patent Document 3 (Kiyomichi Araki ed.) as described in the specification of the present application (e.g., see pages 8 and 40 of the specification). Applicants note that in Non-Patent Document 3, the principle of undersampling is described, and based on the description therein, the condition for realizing the undersampling operation without being adversely affected by the aliasing is shown in Expressions 7 and 8 of the specification (see page 40).

Applicants note that the condition for the undersampling operation, which corresponds to the Nyquist Criteria for the oversampling operation (Expression 9), is shown in the Expression 8 (see page 40). In this regard, referring to page 40, lines 1-8 of the specification, Applicants note

that it is indicated that the necessary and sufficient condition for realizing the undersampling operation is Expression 7 and Expression 8.

In view of the foregoing, Applicants respectfully submit that the objections to the drawings and claims have been addressed, and therefore, that this application is in condition for allowance and should be passed to issue.

If for any reason the Examiner finds the application other than in condition for allowance, the Examiner is kindly requested to contact the undersigned at the telephone number listed below.

Respectfully submitted,

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